# Burning Issues: rules, smoke impacts, health, & alternatives



Idaho Department of Environmental Quality

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#### **DEQ** Authorities

■ IDAPA 39-105(3)(d)

Safeguard air quality by limiting and controlling the emission of air contaminants



# Rules for Control of Open Burning

- □ IDAPA 58.01.01.600-617
- These sections explain the purpose of the rules, the restrictions on material types that may not be burned, and the categories of allowable burning.
- Section 614 addresses prescribed burning and smoke management.

### Prescribed Burning

- Fires are allowed when conducted in accordance with a burn permit or burn plan
- Those who wish to burn shall meet all conditions set forth in the Montana/Idaho Airshed Group for smoke management

#### Montana/Idaho Airshed Group

#### Authorization

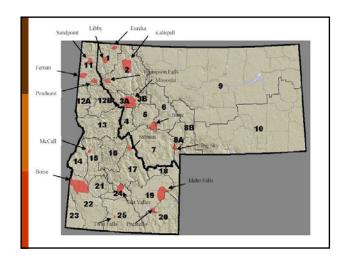
- Meteorologist issues daily burn recommendations
- Based on smoke dispersion, burn data, and air quality data

#### ■ Benefits of Program

- Public health protection
- Reduced wildfire risk
- Ecosystem and wildlife health
- Visibility improvement

#### www.smokemu.org

# MONTANA / IDANO STATE ARRENES GROUP Home In About Its Burn Rais (Editor) Burn Rais (Editor) Burn Rais (Editor) Enriched Its



#### Why We Need To Practice Good Smoke Management

- Protect Public Health
  - Particulates And Toxics
  - Visibility Issues



- Protect Burn Tool
  - Too Many Problems May Lead To Increased Regulations/Restrictions

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#### Sensitive Populations



- Children
- Elderly
- Persons with respiratory or heart conditions

These people represent 40% of the population

#### Factors that Affect Smoke Generation and Dispersion

- Dry, Well-aerated Fuel = Less Smoke
- Atmosphere must be actively heating ■ Generally between 10 AM and 2 PM
- □ Inversions trap smoke close to ground
- Transport winds aloft necessary to carry smoke away
- □ Surface winds must be less than 10-15 mph



#### Proper Burning Basics



- •Use alternatives to burning to dispose of material whenever possible
- •Check with DEQ about air quality conditions and any burn restrictions
- Never leave fire unattended and have fire suppression equipment available
- Burn during the middle of the day when ventilation is generally good
- Burn when fuels are dry and well aerated so the fire is hot, yet manageable

#### Vegetation Management: To Burn or Not to Burn

- Minimize burning through better planning, reuse, or recycling
- □ Utilize alternatives when possible
- Burning is an effective tool for vegetation management

#### Consider Alternatives to Burning

■ Non-burning alternatives are broadly defined as treatment employing manual, mechanical, chemical, or animal methods to address the management of vegetation or fuel loads.

#### DEQ Burn Bans

- Used sparingly when two conditions exist
  - Elevated pollution levels
  - Forecasts show little improvement
- No Open burning allowed
  - This authority is enforceable
- Emergency authority
  - PM<sub>2.5</sub> 80 µg/m³ 1-hr average







# Before you Burn

- Follow the Montana/Idaho Airshed Group
  - www.smokemu.org
- Contact local DEQ office to obtain additional information (dispersion, local air quality)
- Call local DEQ office prior to burning
- Watch For Burn Ban Announcements Locally Call DEQ: Pocatello 236-6160

  - DEQ AQI hotline 236-6173
  - Access DEQ Website www.deq.idaho.gov
  - Local News Media

# Questions?

